

**12004**  
**SLURRY ELECTROLYSIS**

**PROJECT OBJECTIVE:**

**BASED ON THE SLURRY ELECTROLYSIS CONCEPT DETERMINE THE DESIGN AND OPERATING PARAMETERS NECESSARY TO ECONOMICALLY OPERATE A SEBREE CELL AT  $\leq$  5 KWH/LB.**

**KEY ISSUES:**

- o WHAT IS AN ELECTROLYTE/ALUMINOUS FEEDSTOCK COMBINATION THAT GIVES A SUFFICIENTLY STABLE ELECTROLYTE SLURRY WITH ADEQUATE CONDUCTIVITY AND STABILITY?**
- o WHAT IS THE OPTIMUM SIDE WALL MATERIAL FOR A SLURRY CELL?**
- o CAN EXISTING SCRUBBER SYSTEMS MEET ENVIRONMENTAL REGULATIONS WHEN USED WITH THE SLURRY ELECTROLYTE?**